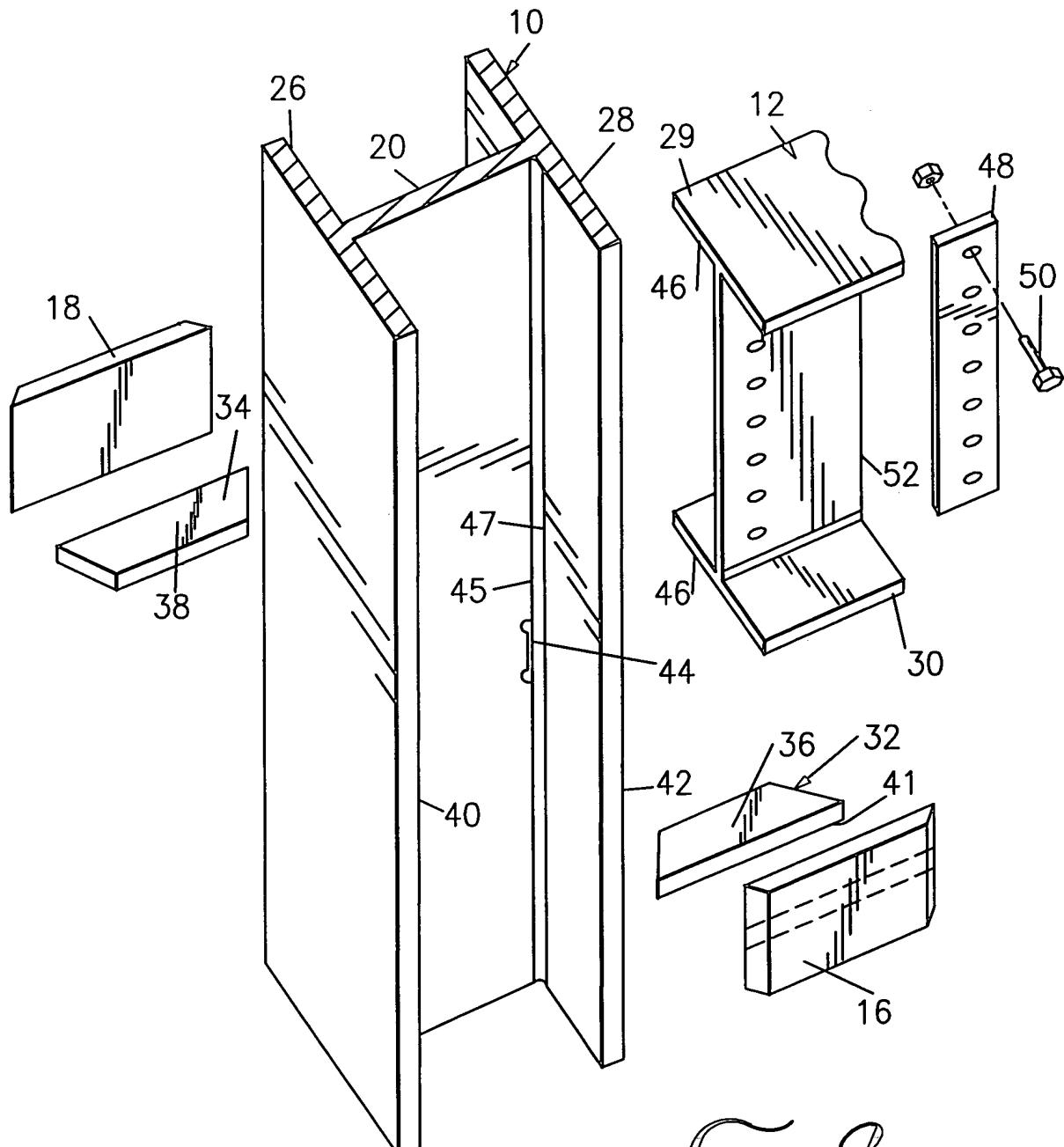


Fig. 1

09347446 - 050201

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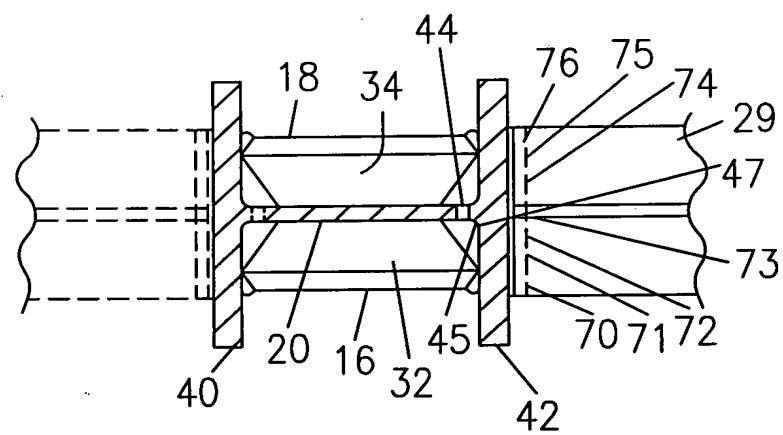


Fig. 3

00000000000000000000000000000000

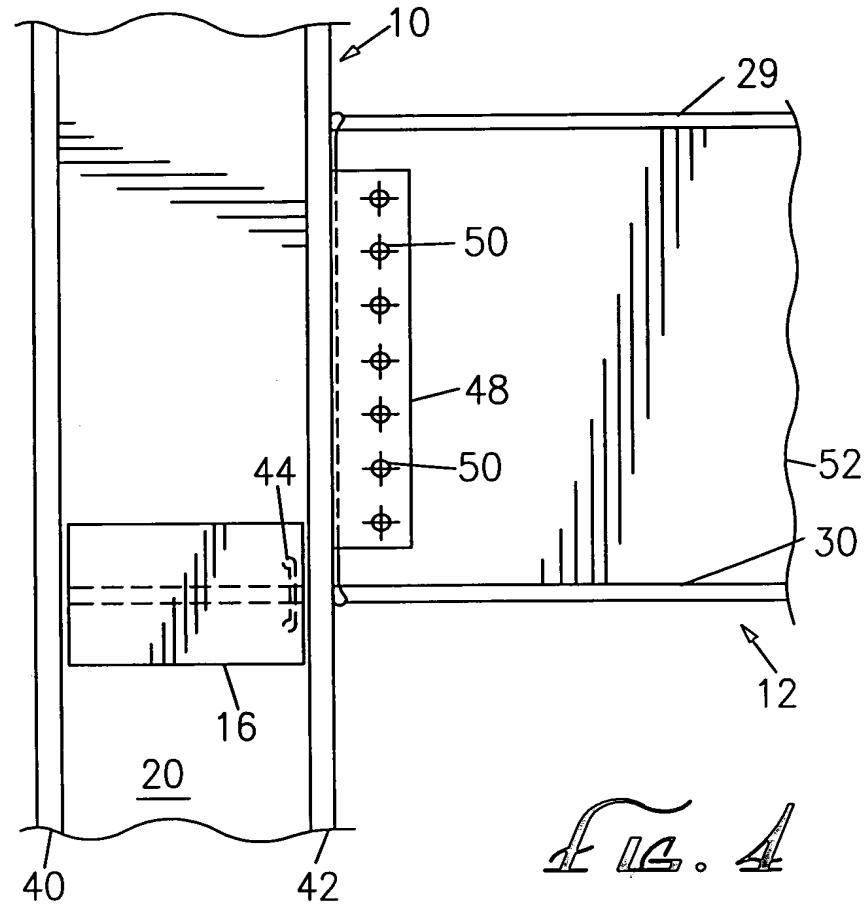
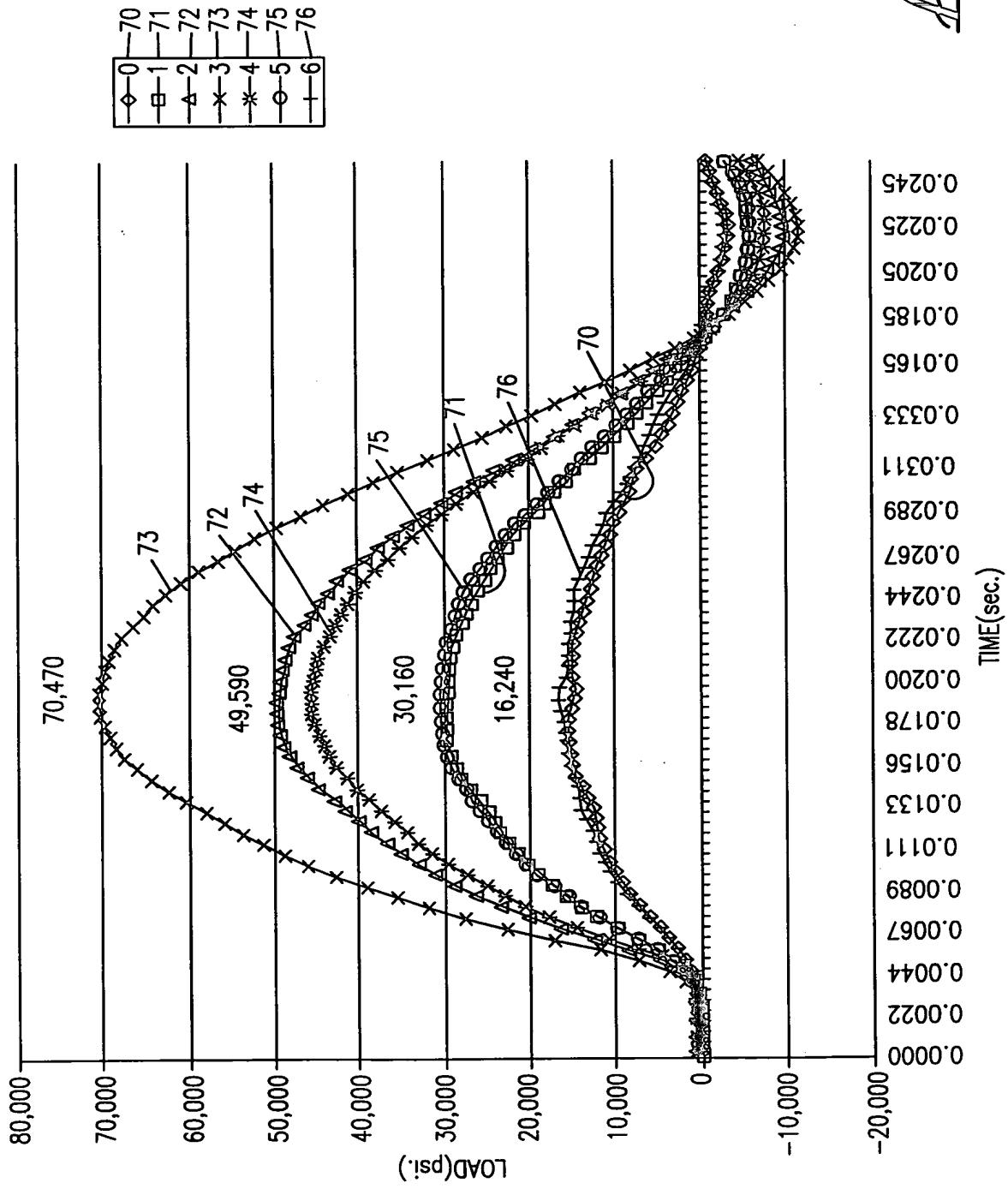


Fig. 4

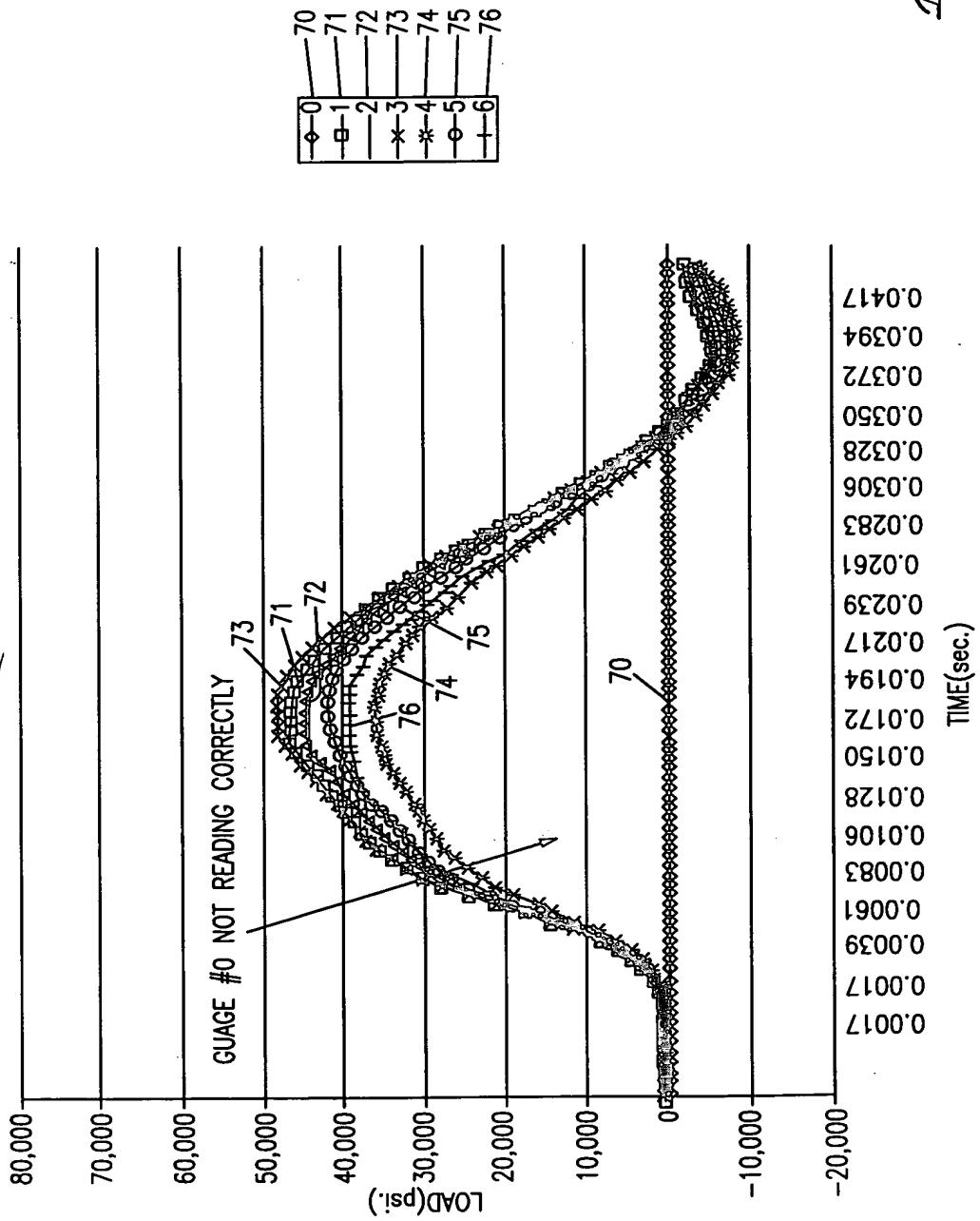
702050 " 94424860

SEISMIC SIMULATION 2000 LBS, 9" DROP (9"-6" MOMENT ARM)



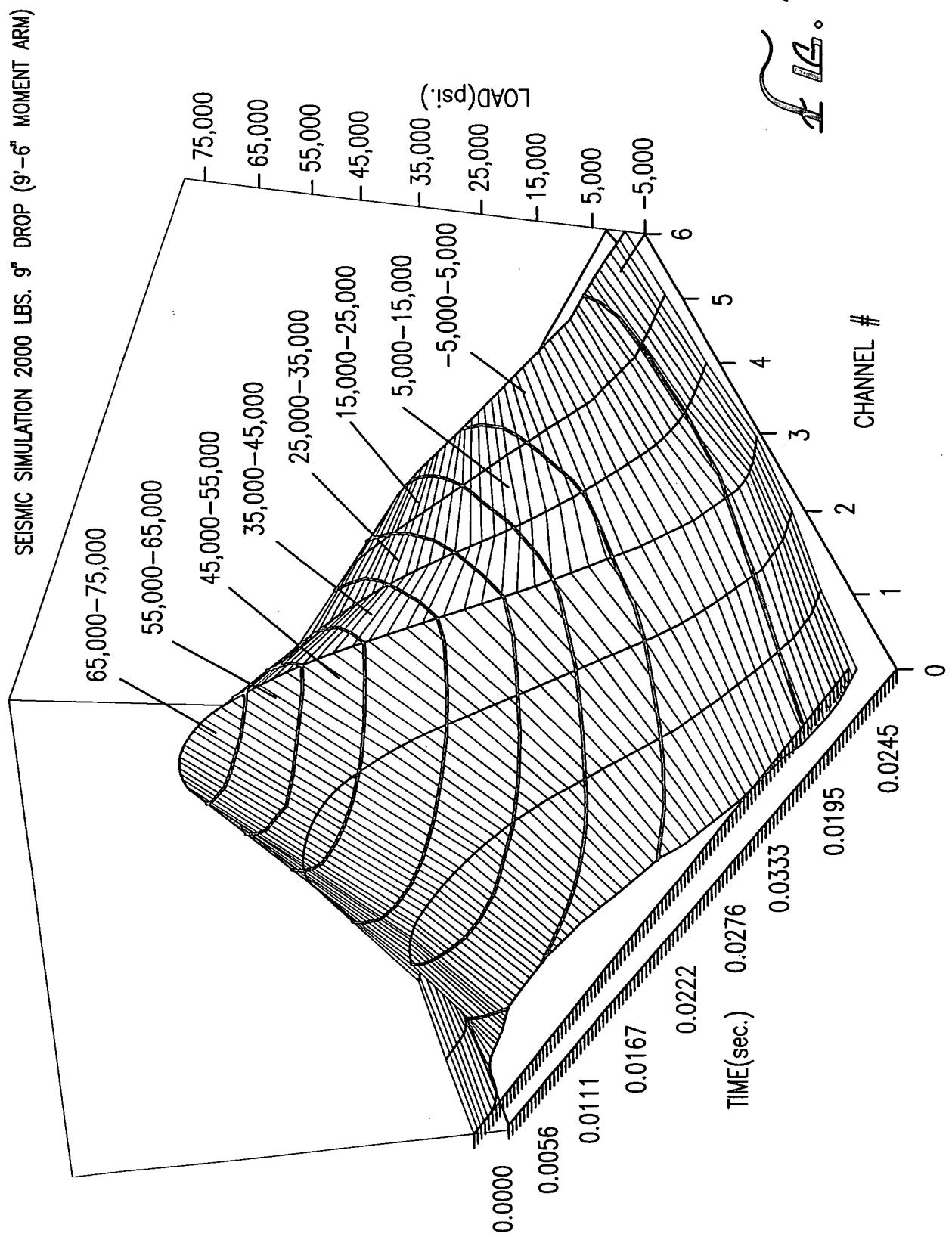
Digitized by srujanika@gmail.com

SEISMIC SIMULATION 2000 LBS. 9" DROP (9'-6" MOMENT ARM)  
1" THICK BY 8" HIGH VERT. PLATE WITHIN COL. FLANGE W/TAFFERED 1" THICK CONTINUITY  
PLATE. 4-1/2" SLOT CUT IN COL. WEB. NOTE CH 0 NOT READING CORRECTLY. (SET TO  
0 PSI.)



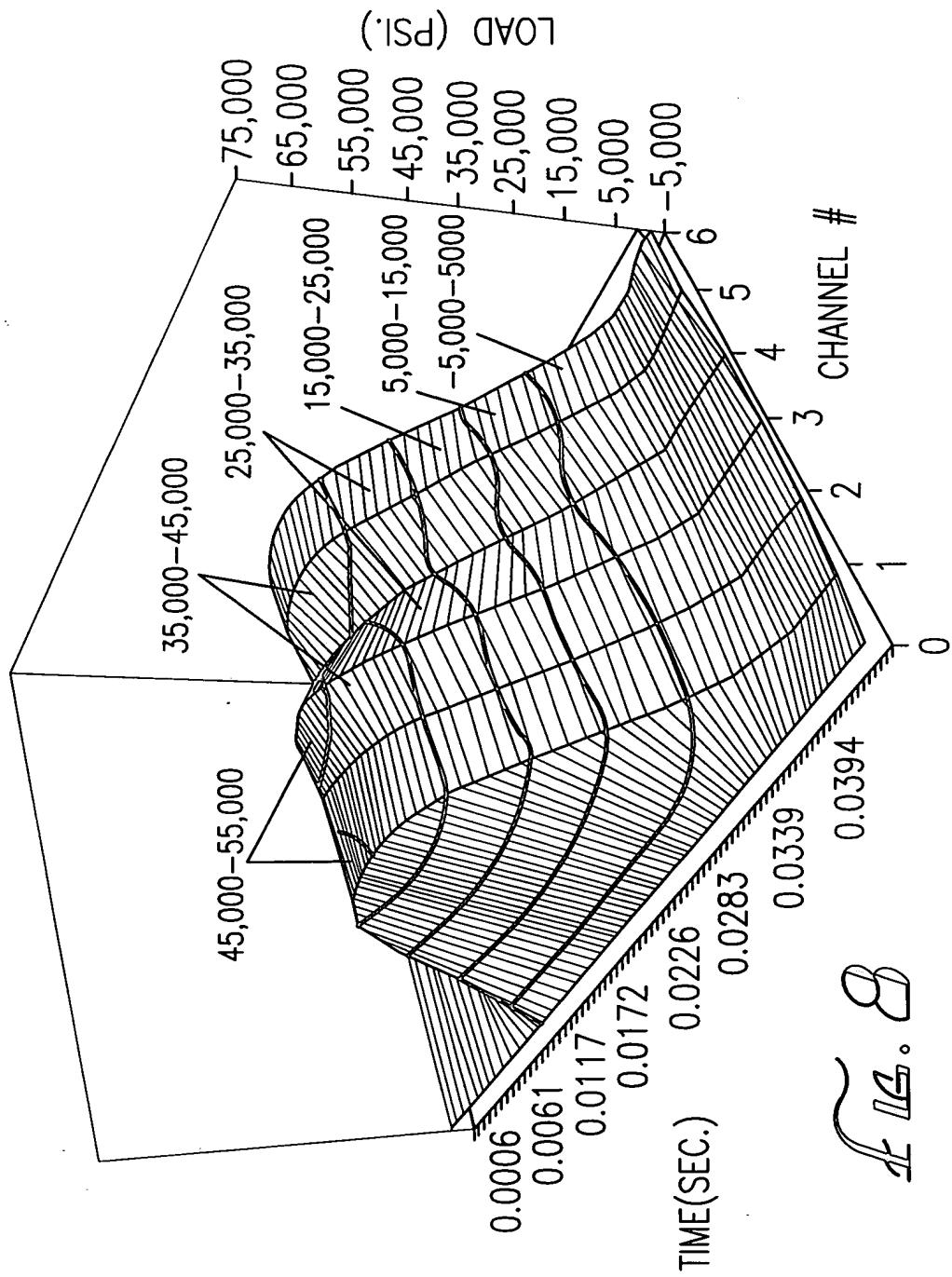
TO 2050" 94442-1360

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7/2050 " 24th 1986

SEISMIC SIMULATION 2000 LBS. 9" DROP (9"-6" MOMENT ARM)  
1" THICK BY 8" HIGH VERT. PLATE WITHIN COL. FLANGE W/TAPERED 1" THICK CONTINUITY  
PLATE. 4-1/2" SLOT CUT IN COL. WEB. NOTE CH 0 NOT READING CORRECTLY. (SET TO  
0 PSI.)



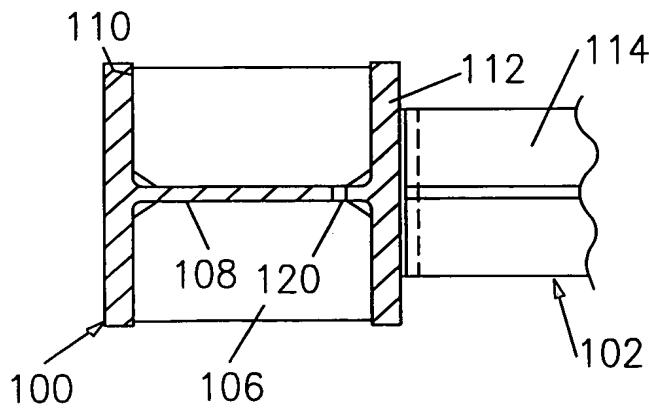
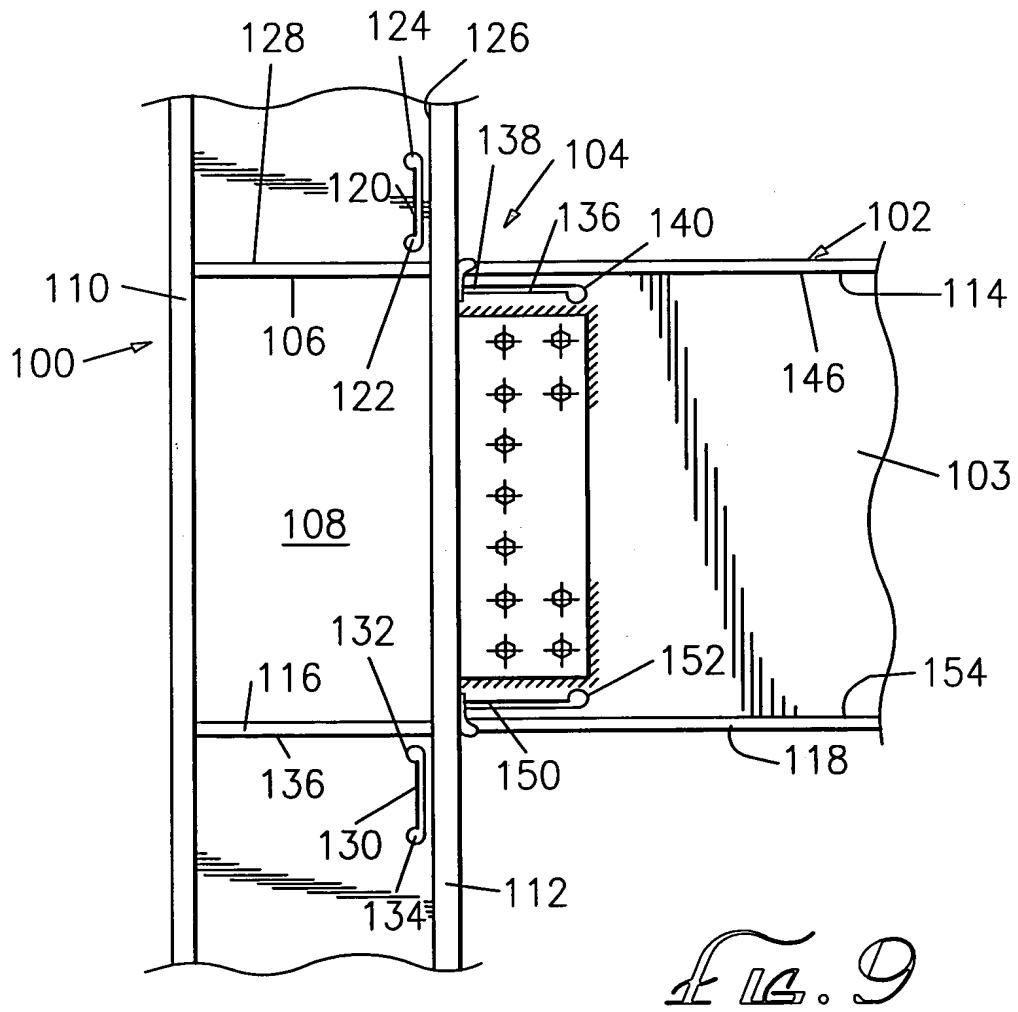


FIG. 10

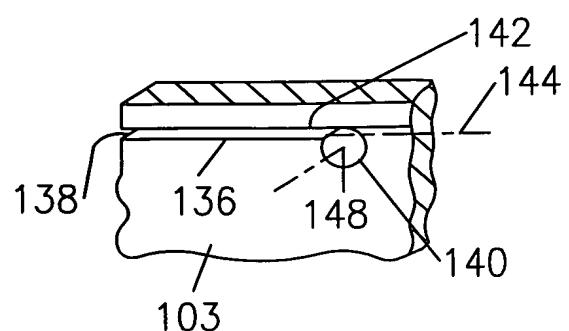
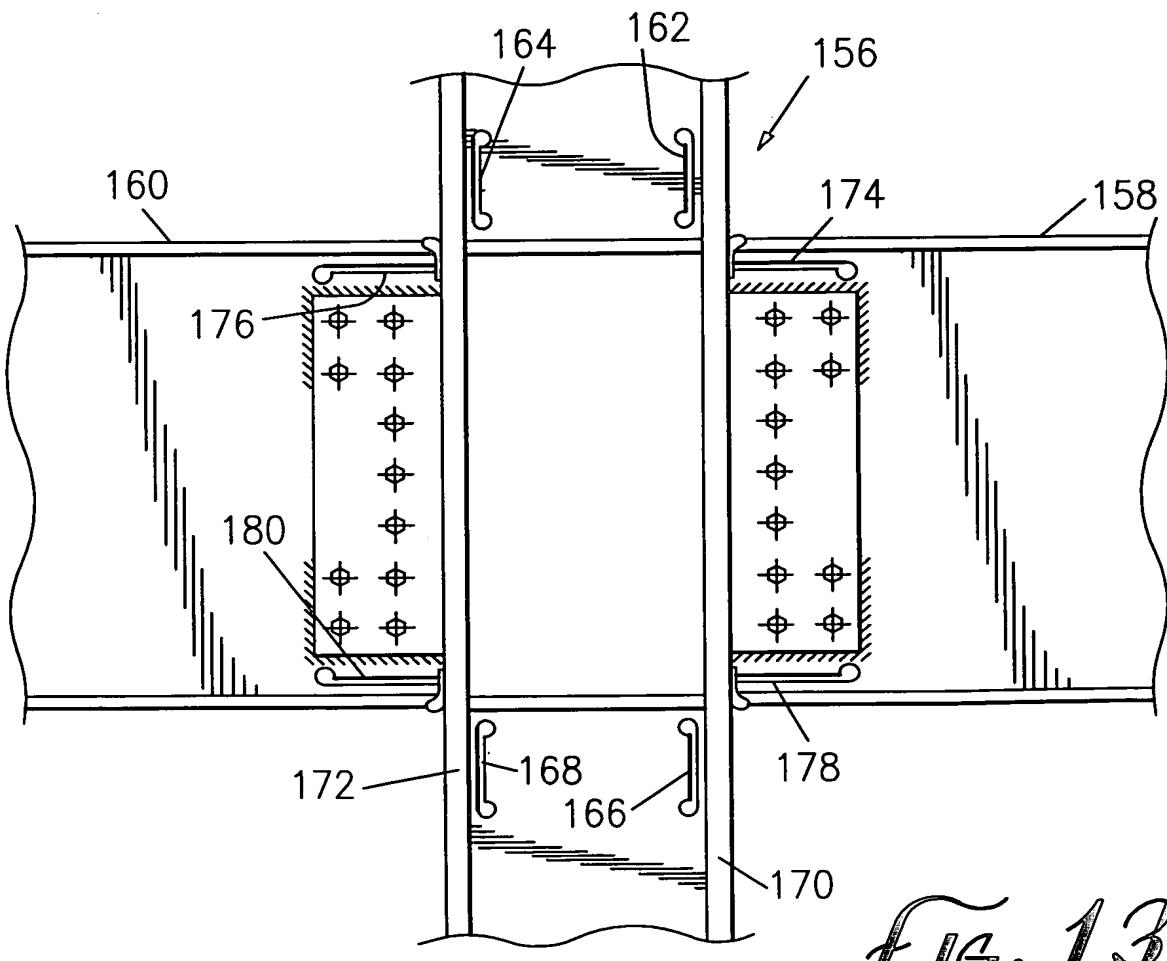
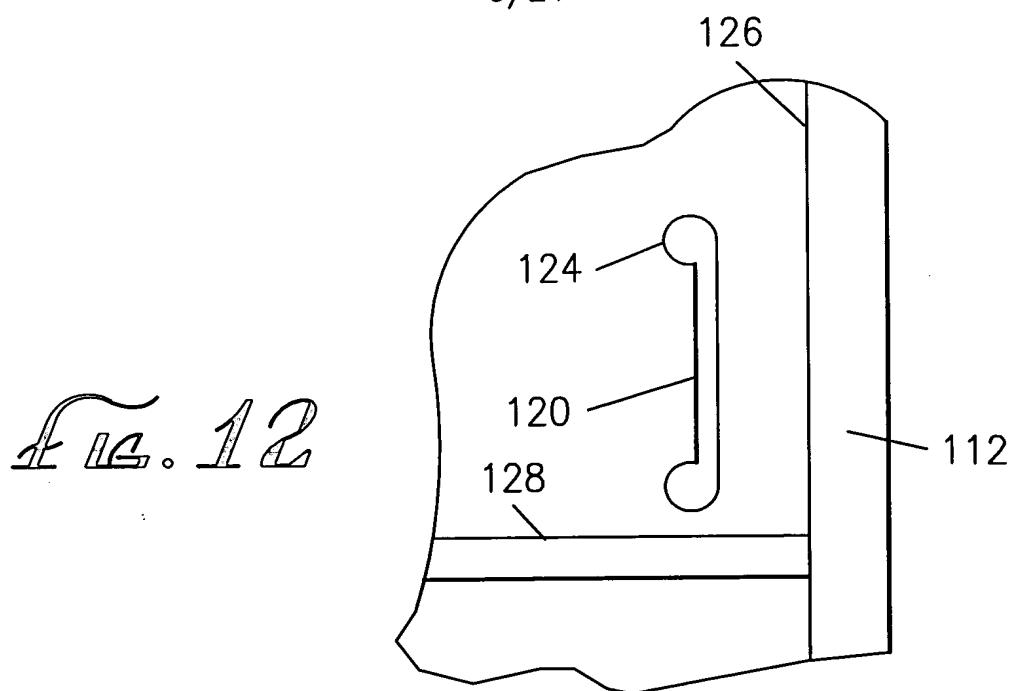


FIG. 11

096347244650 0502042

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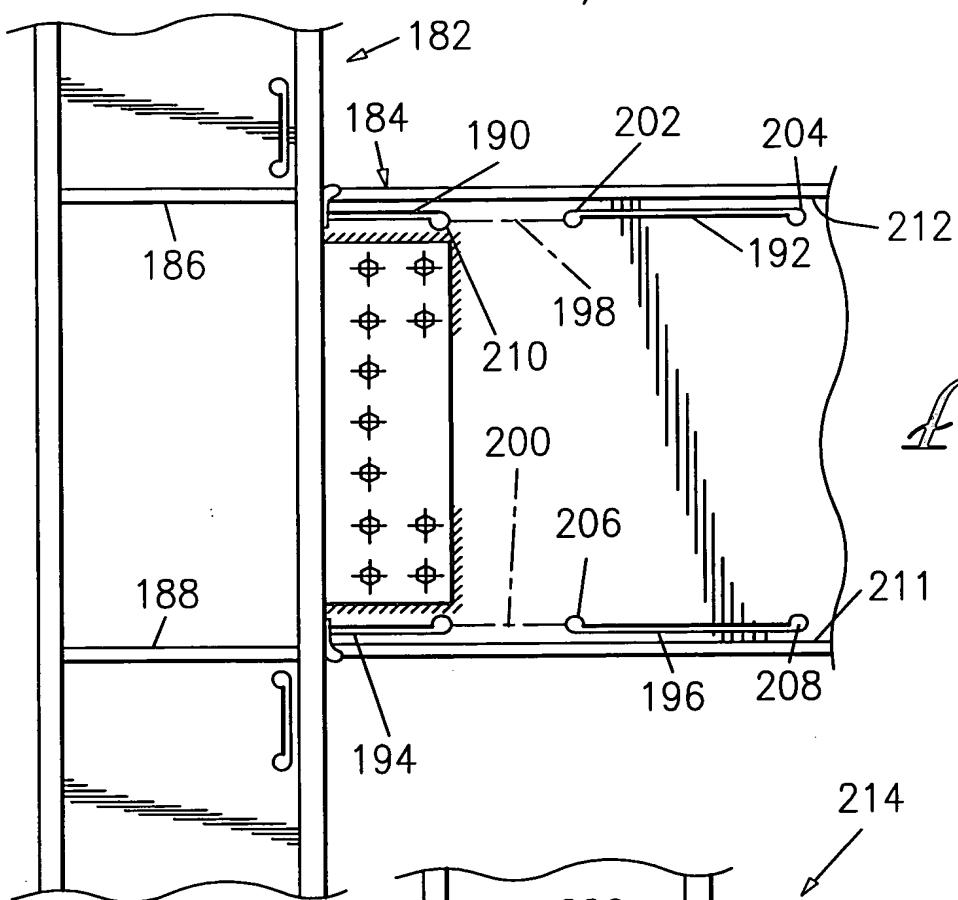


Fig. 14.

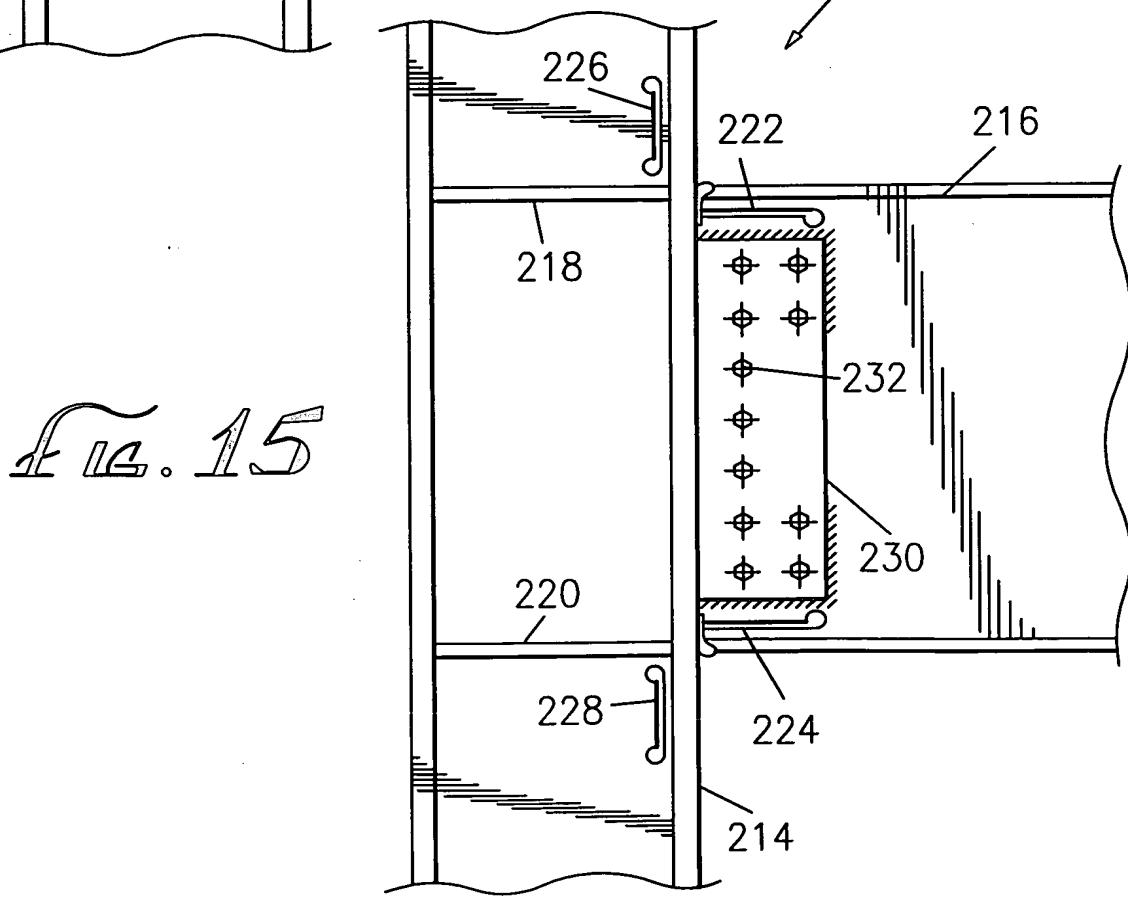
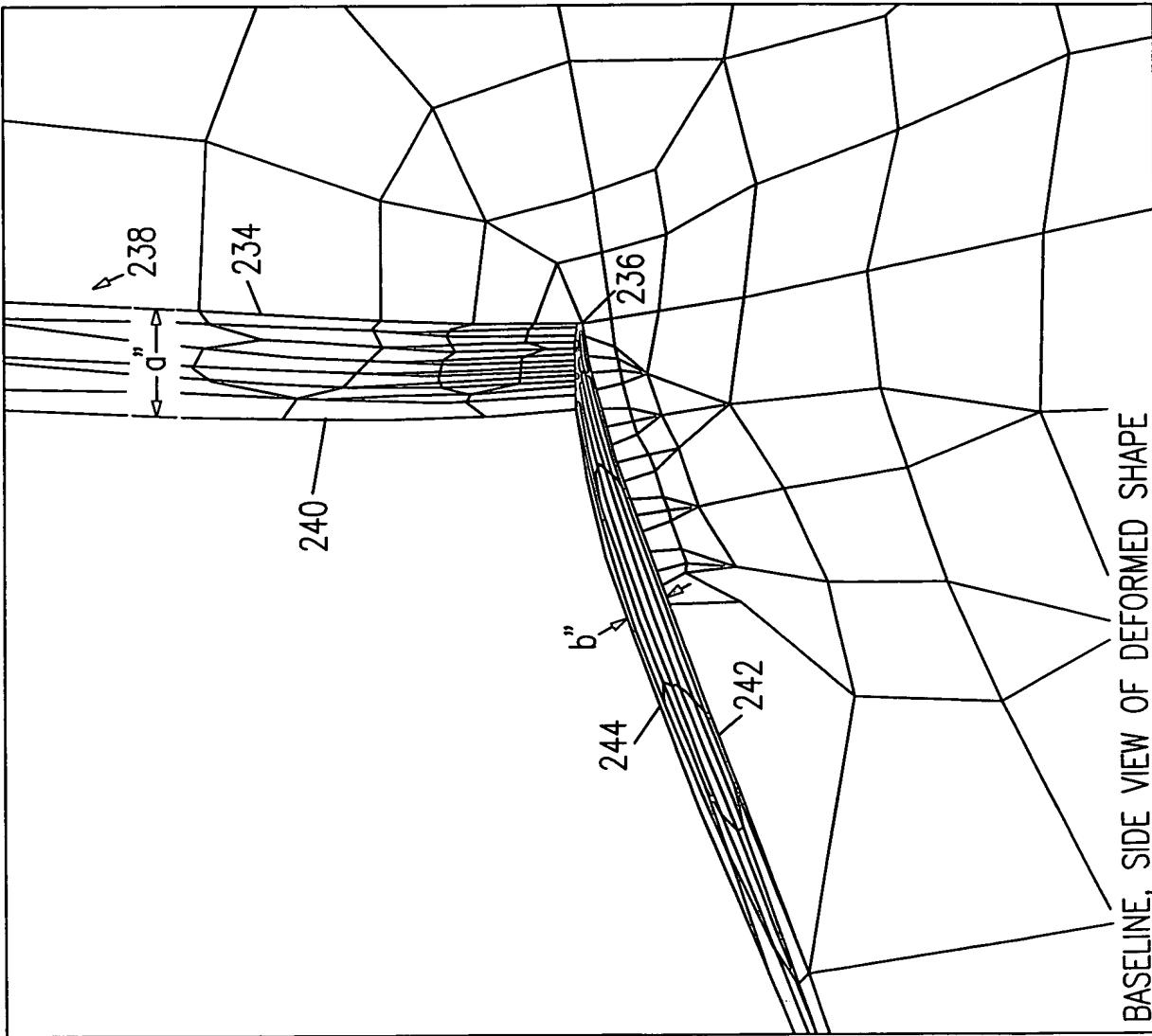


Fig. 15

ANSYS 5.1 34  
JULY 31, 1995  
09:53:34  
DISPLACEMENT  
STEP=1  
SUB=1  
TIME=1  
RSYS=0  
DMX=1.114  
SEPC=26.872

\*DSCA=50  
\*XV=1  
\*DIST=4.153  
\*XF=-3.943  
\*YF=12.822  
\*ZF=4.91  
CENTROID HIDDEN



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Fig. 16

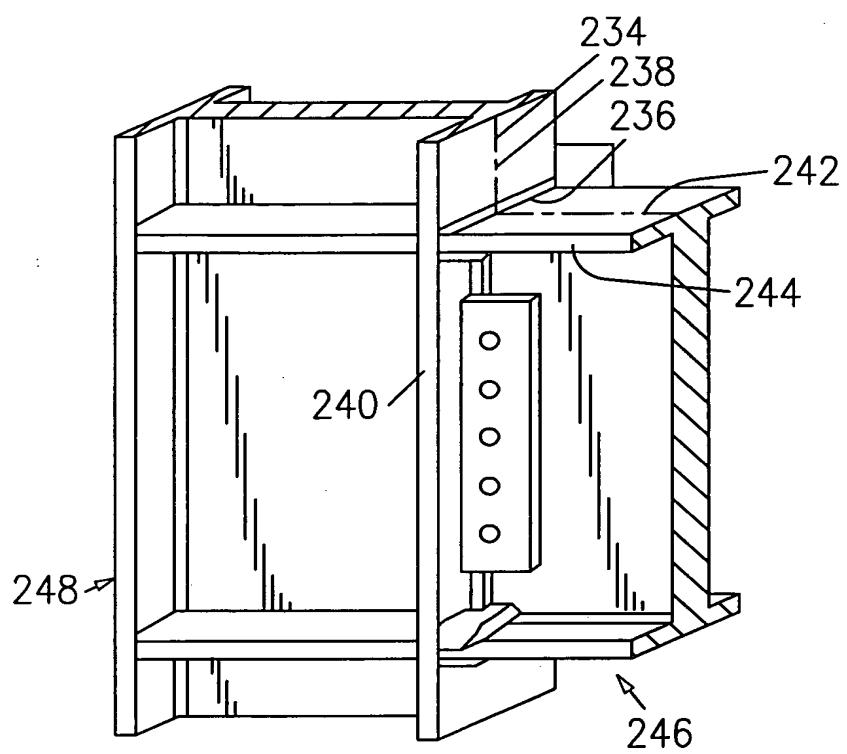
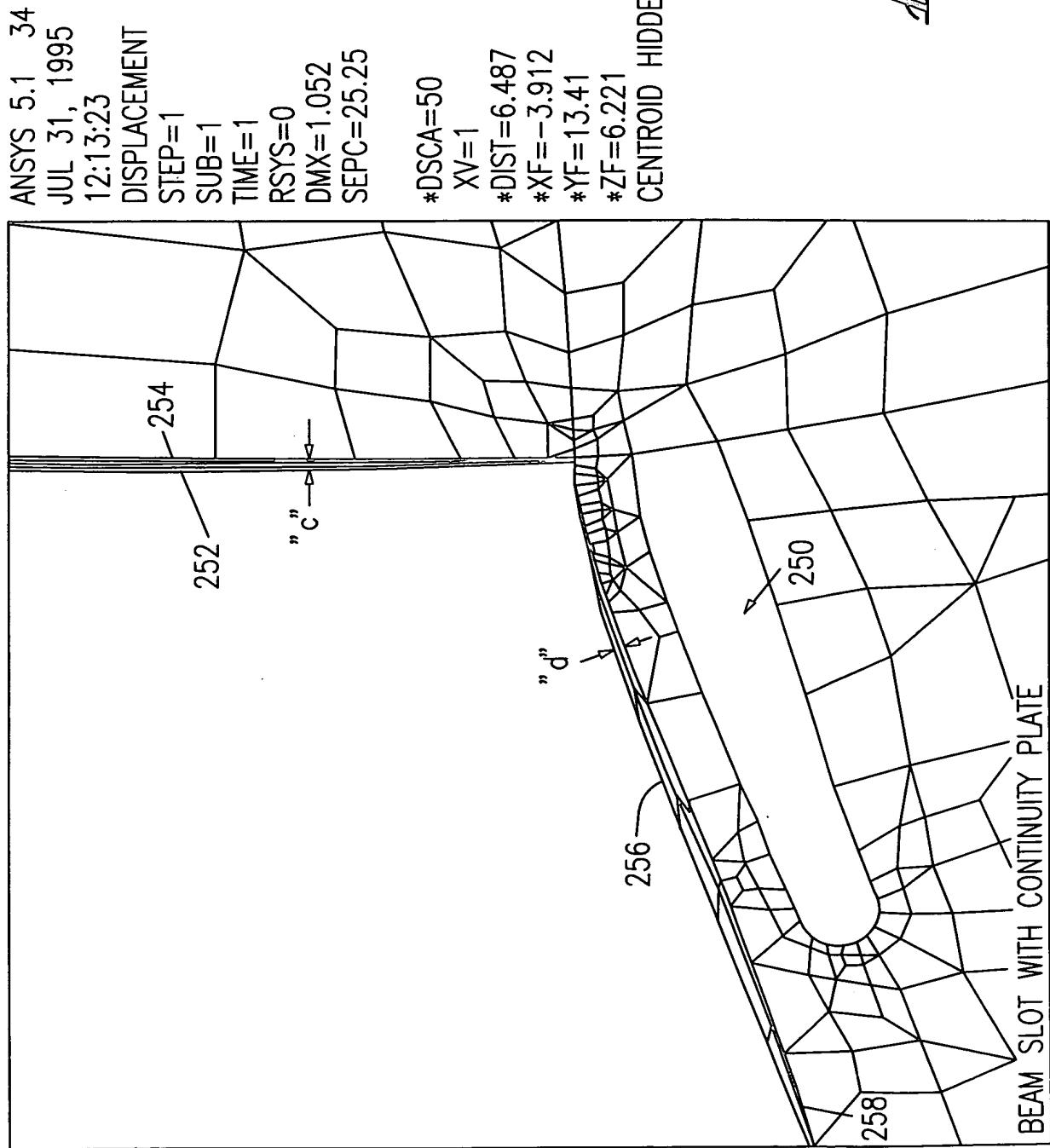


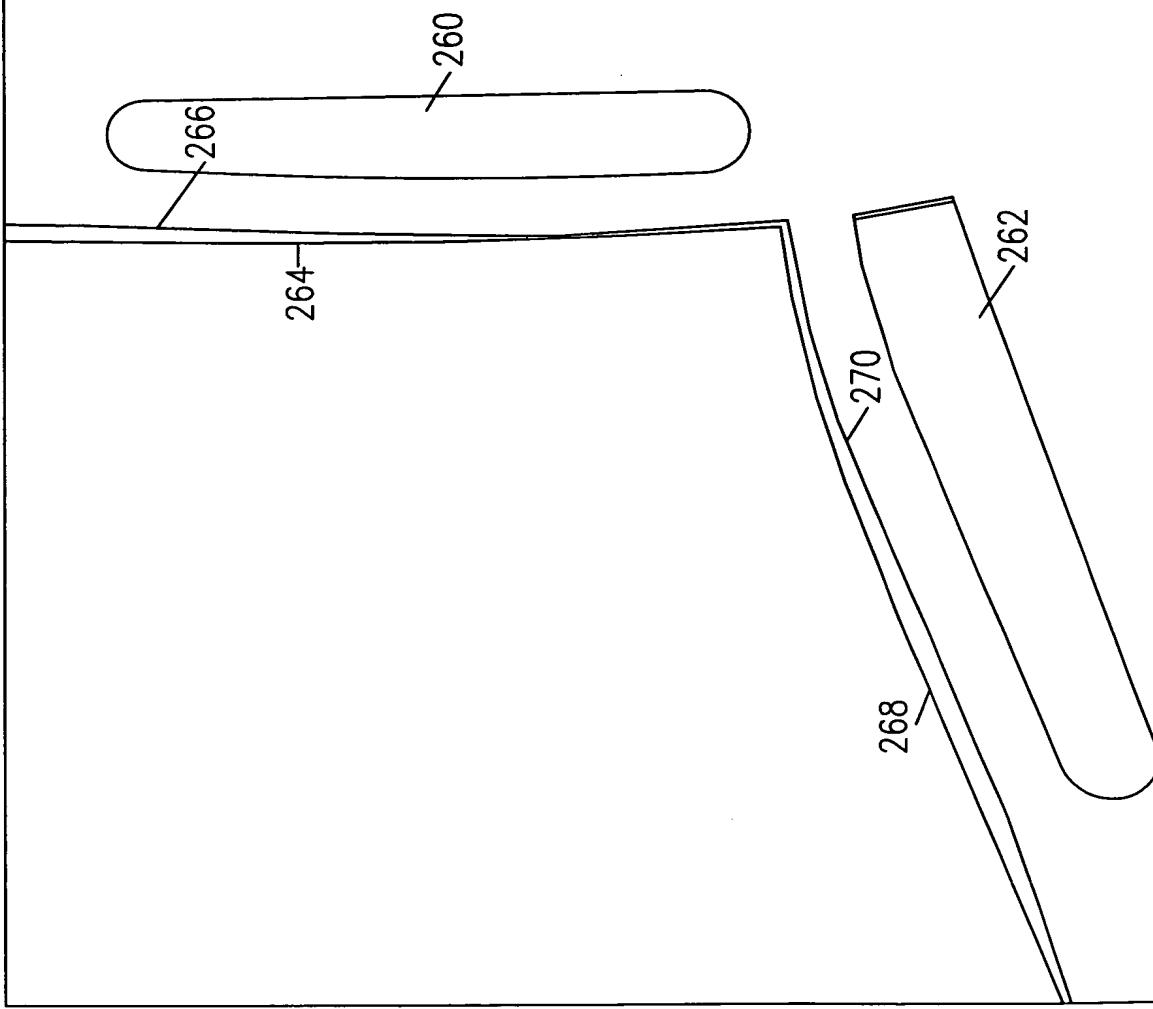
Fig. 17

102050" 341124 1860



ANSYS 5.1 34  
AUG 8, 1995  
23:47:27  
DISPLACEMENT  
STEP=1  
SUB=1  
TIME=1  
RSYS=0  
DMX=1.067  
SEPC=24.838

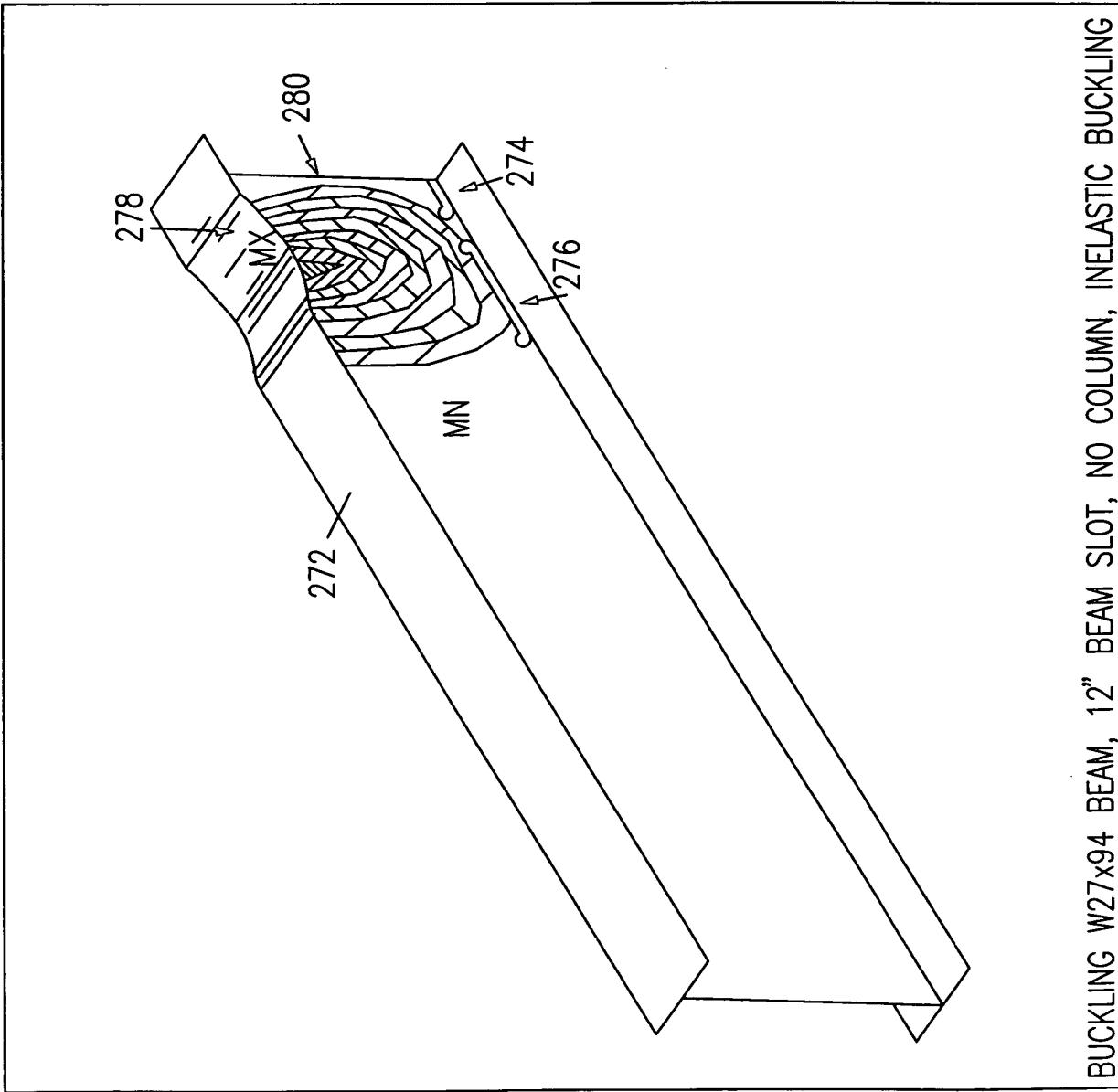
\*DSCA=50  
XV=1  
\*DIST=6.361  
\*XF=-3.912  
\*YF=14.574  
\*ZF=5.901  
CENTROID HIDDEN  
EDGE



W14x176 COLUMN, W27x94 BEAM, BEAM AND COLUMN SLOTS, CONTINUITY PLATE

102050" 94121860

ANSYS 5.1 34  
AUG 21, 1995  
13:11:27  
NODAL SOLUTION  
STEP=1  
SUB=37  
TIME=3.445  
UX  
TOP  
RSYS=0  
DMX=3.544  
SMN=-0.153612  
SMX=2.209  
-0.153612  
0.108884  
0.37138  
0.633876  
0.896371  
1.159  
1.421  
1.684  
1.946  
2.209



7020500-94112160

DRAFT  
ATC-24 S.E. 'BMSLT1A' AUGUST 22, 1995

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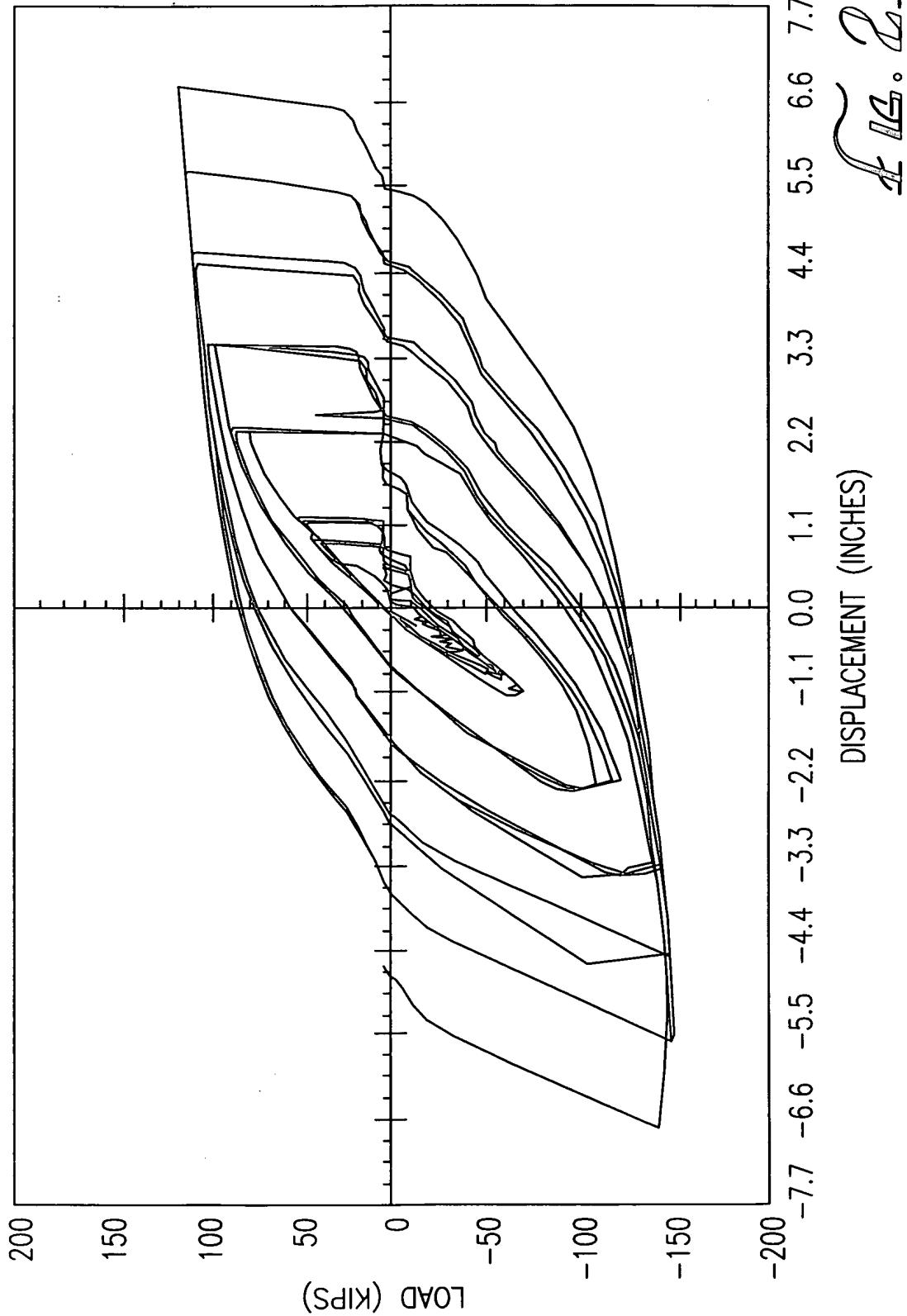


Fig. 22

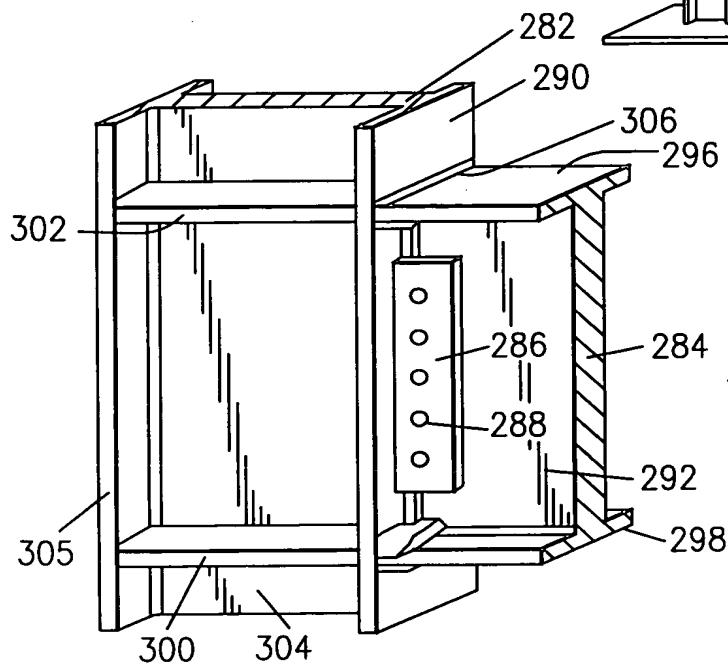
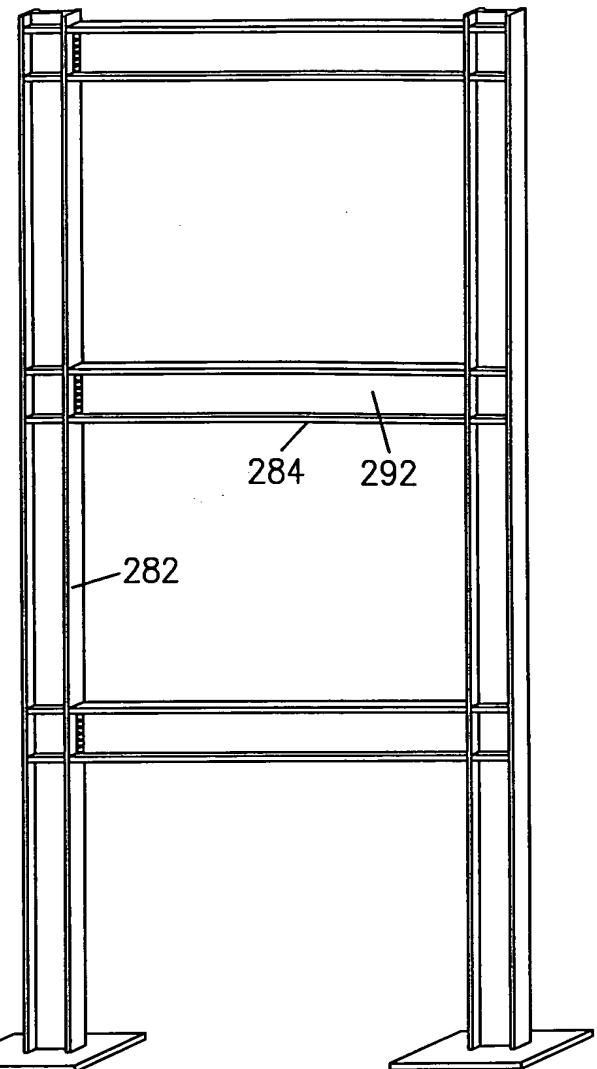
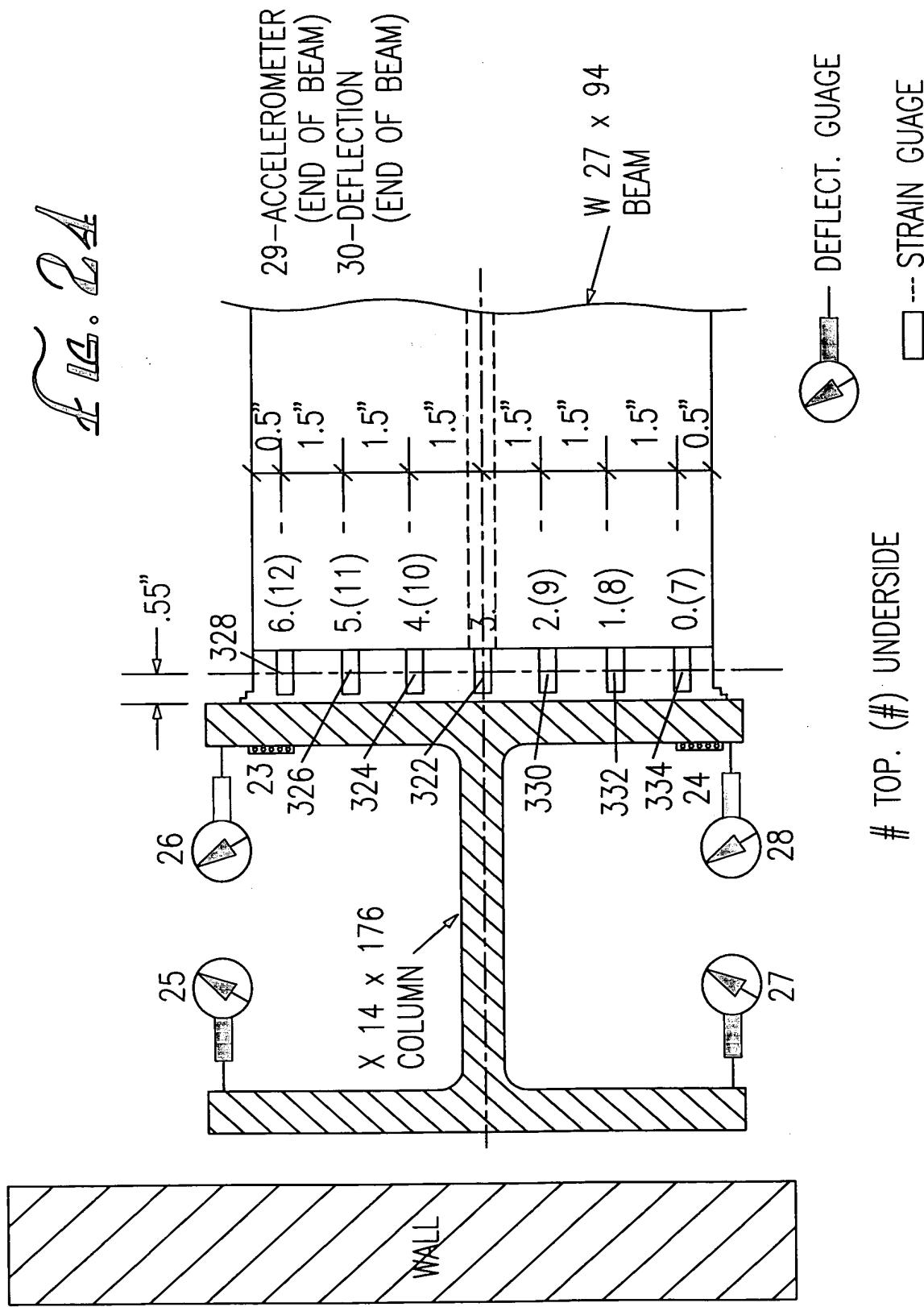
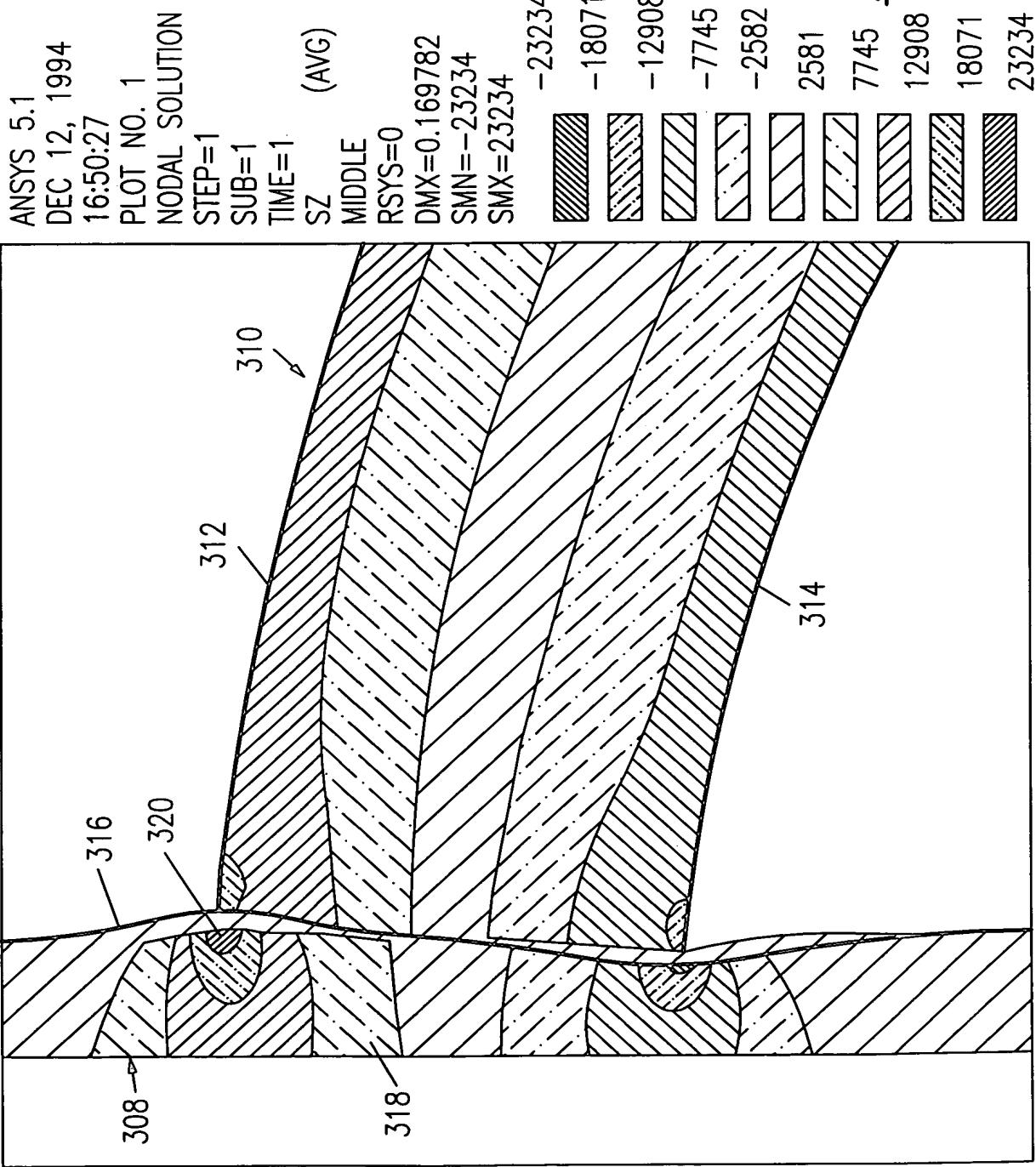
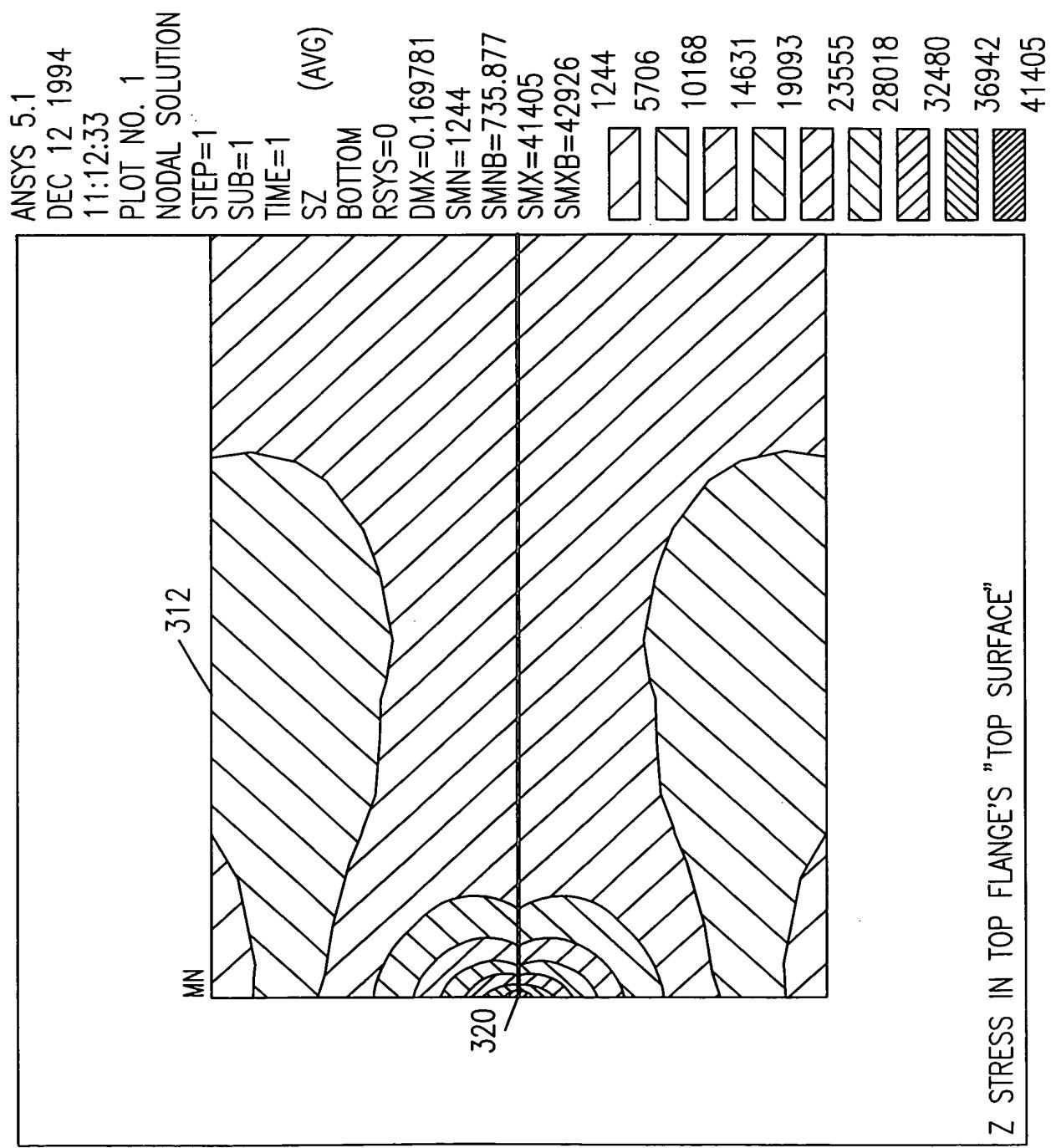


Fig. 23

*Fig. 24*







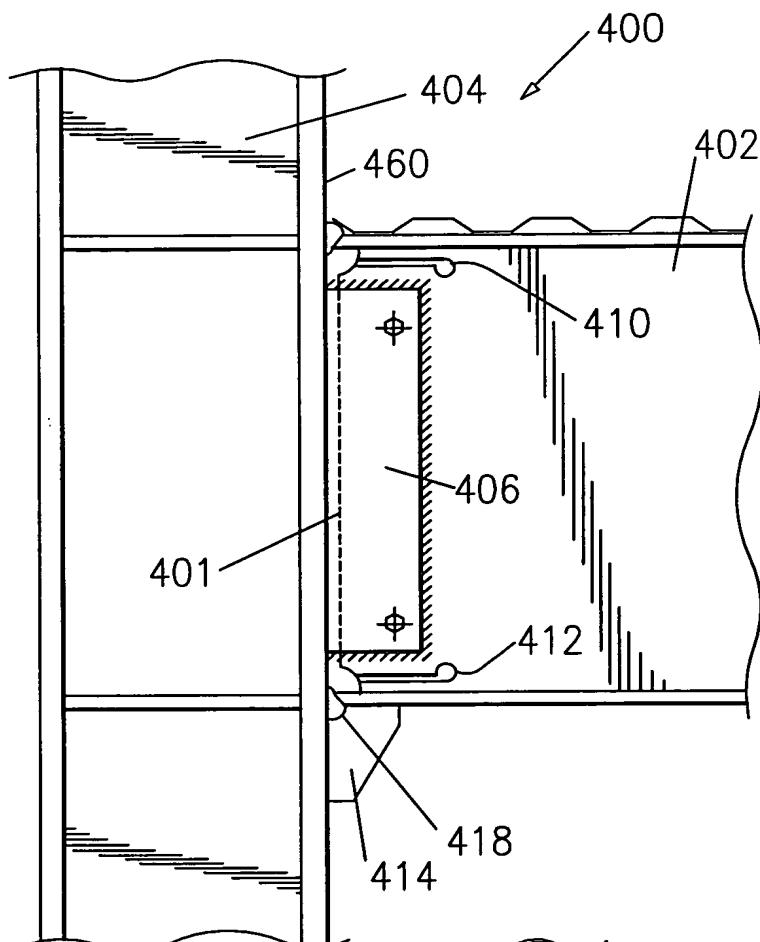


Fig. 27

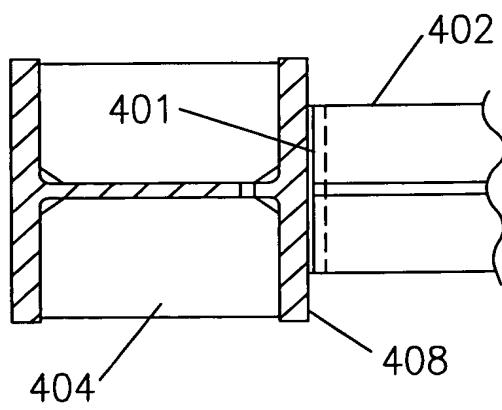


Fig. 28

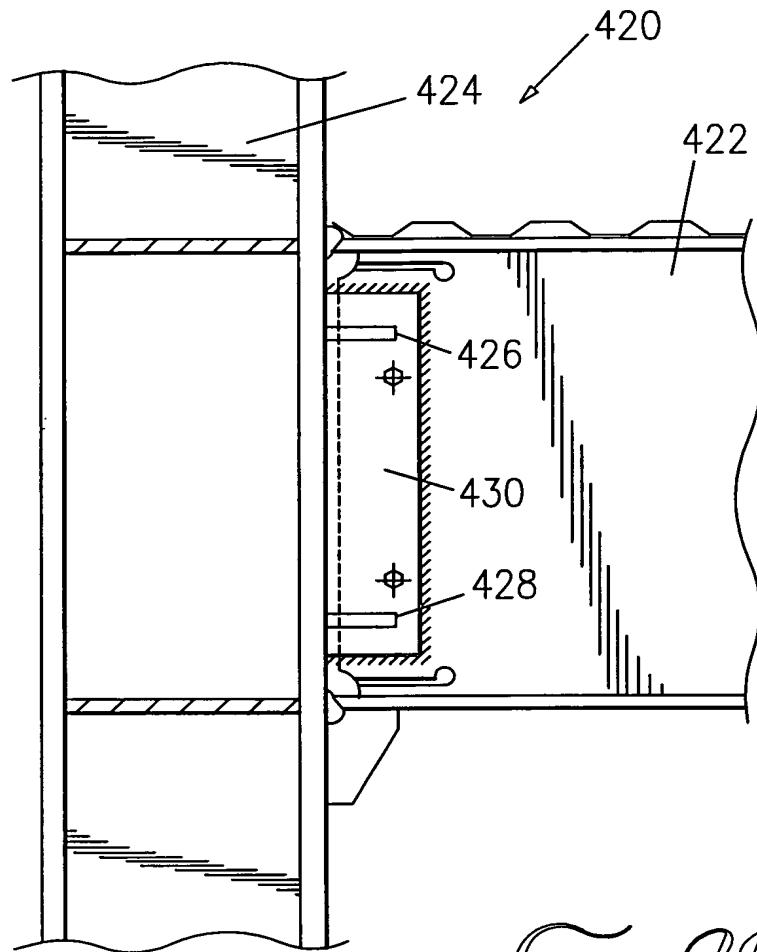


Fig. 29

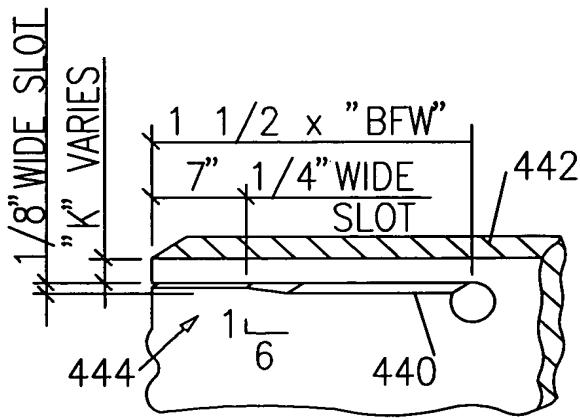


Fig. 31

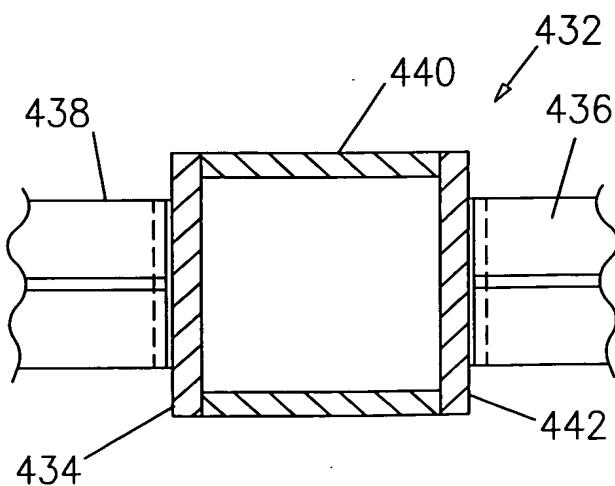
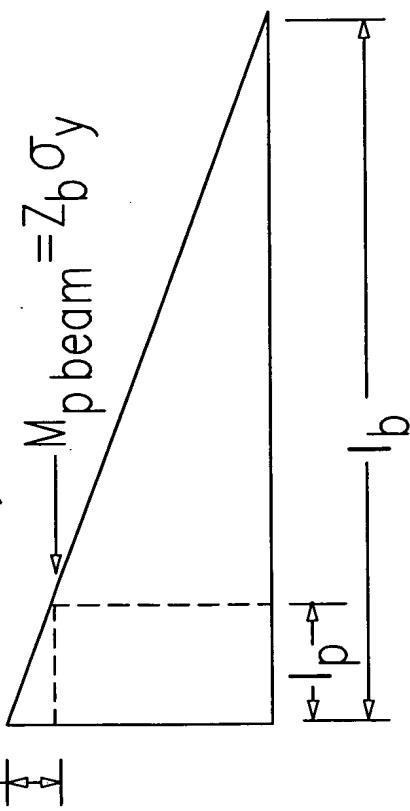


Fig. 30

- o Develop required plate strength at the column face using ATC-24 moment diagram

$$-\Delta M = Z_b \sigma_y (|p|/(\|b\|_p))$$



$$p_{\text{beam}} = Z_b \sigma_y$$

- Use ATC-24 moment diagram to compute the web plastic hinge and slot length measured from end of slot to shear plate.

$$M_{\max} = M_p = Z_b \sigma_y \quad M_s = (Z_f + S_w) \sigma_y$$

$Z_f$  = Flange Modulus  
 $S_w$  = Web Modulus



### Web Plastic Hinge Length

$$q_Z/(q_i - q_l) - q_l = s_l$$

